PCT

RAW SEQUENCE LISTING   DATE: 02/12/2004
PATENT APPLICATION: **US/09/673,389A**   TIME: 15:37:02

Input Set : **A:\Sq011291.app**
Output Set: **N:\CRF4\02122004\I673389A.raw**

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    3 <110> APPLICANT: Jomaa, Hassan
    5 <120> TITLE OF INVENTION: Process for identifying chemical active ingredients and
    6       active ingredients for inhibiting the
    7       1-deoxy-D-xylulose-5-phosphate biosynthesis pathway
    9 <130> FILE REFERENCE: 15514
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/673,389A
C--> 12 <141> CURRENT FILING DATE: 2002-06-07
   14 <150> PRIOR APPLICATION NUMBER: DE19843279.8
   15 <151> PRIOR FILING DATE: 1998-09-22
   17 <150> PRIOR APPLICATION NUMBER: DE19816196.4
   18 <151> PRIOR FILING DATE: 1998-04-14
   20 <150> PRIOR APPLICATION NUMBER: DE19828097.1
   21 <151> PRIOR FILING DATE: 1998-06-24
   23 <150> PRIOR APPLICATION NUMBER: DE19825585.3
   24 <151> PRIOR FILING DATE: 1998-06-09
   26 <150> PRIOR APPLICATION NUMBER: DE19831637.2
   27 <151> PRIOR FILING DATE: 1998-07-15
   29 <150> PRIOR APPLICATION NUMBER: DE19831639.9
   30 <151> PRIOR FILING DATE: 1998-07-15
   32 <150> PRIOR APPLICATION NUMBER: DE19831638.0
   33 <151> PRIOR FILING DATE: 1998-07-15
   35 <160> NUMBER OF SEQ ID NOS: 4
   37 <170> SOFTWARE: PatentIn Ver. 2.1
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Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

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  614 <210> SEQ ID NO: 4
  615 <211> LENGTH: 1205
  616 <212> TYPE: PRT
  617 <213> ORGANISM: Plasmodium falciparum
  619 <400> SEQUENCE: 4
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  623 Tyr Ile Leu Leu Ile Ile Tyr Ile Asn Leu Asn Gly Met Asn Asn Lys
  624            20              25              30
  626 Asn Gln Ile Lys Thr Glu Lys Ile Tyr Ile Lys Lys Leu Asn Arg Leu
  627         35              40              45
  629 Ser Arg Lys Asn Ser Leu Cys Ser Ser Lys Asn Lys Ile Ala Cys Leu
  630      50              55              60
  632 Phe Asp Ile Gly Asn Asp Asp Asn Arg Asn Thr Thr Tyr Gly Tyr Asn
  633  65              70              75              80
  635 Val Asn Val Lys Asn Asp Asp Ile Asn Ser Leu Leu Lys Asn Asn Tyr
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636                   85            90            95
638 Ser Asn Lys Leu Tyr Met Asp Lys Arg Lys Asn Ile Asn Asn Val Ile
639             100           105           110
641 Ser Thr Asn Lys Ile Ser Gly Ser Ile Ser Asn Ile Cys Ser Arg Asn
642             115           120           125
644 Gln Lys Glu Asn Glu Gln Lys Arg Asn Lys Gln Arg Cys Leu Thr Gln
645   ,  130           135           140
647 Cys His Thr Tyr Asn Met Ser His Glu Gln Asp Lys Leu Ala Asn Asp
648 145               150           155               160
650 Asn Asn Arg Asn Asn Lys Lys Asn Phe Asn Leu Leu Phe Ile Asn Tyr
651             165           170           175
653 Phe Asn Leu Lys Arg Met Lys Asn Ser Leu Leu Asn Lys Asp Asn Phe
654             180           185           190
656 Phe Tyr Cys Lys Glu Lys Lys Leu Ser Phe Leu His Lys Ala Tyr Lys
657         195           200           205
659 Lys Lys Asn Cys Thr Phe Gln Asn Tyr Ser Leu Lys Arg Lys Ser Asn
660     210           215           220
662 Arg Asp Ser His Lys Leu Phe Ser Gly Glu Phe Asp Asp Tyr Thr Asn
663 225           230           235               240
665 Asn Asn Ala Leu Tyr Glu Ser Glu Lys Lys Glu Tyr Ile Thr Leu Asn
666             245           250           255
668 Asn Asn Asn Lys Asn Asn Asn Asn Lys Asn Asn Asp Asn Lys Asn Asn
669             260           265           270
671 Asp Asn Asn Asp Tyr Asn Asn Asn Asn Ser Cys Asn Asn Leu Gly Glu
672         275           280           285
674 Arg Ser Asn His Tyr Asp Asn Tyr Gly Gly Asp Asn Asn Asn Pro Cys
675     290           295           300
677 Asn Asn Asn Asn Asp Lys Tyr Asp Ile Gly Lys Tyr Phe Lys Gln Ile
678 305           310           315               320
680 Asn Thr Phe Ile Asn Ile Asp Glu Tyr Lys Thr Ile Tyr Gly Asp Glu
681             325           330           335
683 Ile Tyr Lys Glu Ile Tyr Glu Leu Tyr Val Glu Arg Asn Ile Pro Glu
684         340           345           350
686 Tyr Tyr Glu Arg Lys Tyr Phe Ser Glu Asp Ile Lys Lys Ser Val Leu
687         355           360           365
689 Phe Asp Ile Asp Lys Tyr Asn Asp Val Glu Phe Glu Lys Ala Ile Lys
690     370           375           380
692 Glu Glu Phe Ile Asn Asn Gly Val Tyr Ile Asn Asn Ile Asp Asn Thr
693 385           390           395               400
695 Tyr Tyr Lys Lys Glu Asn Ile Leu Ile Met Lys Lys Ile Leu His Tyr
696             405           410           415
698 Phe Pro Leu Leu Lys Leu Ile Asn Asn Pro Ser Asp Leu Lys Lys Leu
699             420           425           430
701 Lys Lys Gln Tyr Leu Pro Leu Leu Ala His Glu Leu Lys Ile Phe Leu
702         435           440           445
704 Phe Phe Ile Val Asn Ile Thr Gly Gly His Phe Ser Ser Val Leu Ser
705     450           455           460
707 Ser Leu Glu Ile Gln Leu Leu Leu Tyr Ile Phe Asn Gln Pro Tyr
708 465           470           475               480
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710 Asp Asn Val Ile Tyr Asp Ile Gly His Gln Ala Tyr Val His Lys Ile
711             485             490             495
713 Leu Thr Gly Arg Lys Leu Leu Phe Leu Ser Leu Arg Asn Lys Lys Gly
714         500             505             510
716 Ile Ser Gly Phe Leu Asn Ile Phe Glu Ser Ile Tyr Asp Lys Phe Gly
717         515             520             525
719 Ala Gly His Ser Ser Thr Ser Leu Ser Ala Ile Gln Gly Tyr Tyr Glu
720     530             535             540
722 Ala Glu Trp Gln Val Lys Asn Lys Glu Lys Tyr Gly Asn Gly Asp Ile
723 545             550             555             560
725 Glu Ile Ser Asp Asn Ala Asn Val Thr Asn Asn Glu Arg Ile Phe Gln
726             565             570             575
728 Lys Gly Ile His Asn Asp Asn Asn Ile Asn Asn Asn Ile Asn Asn Asn
729             580             585             590
731 Asn Tyr Ile Asn Pro Ser Asp Val Val Gly Arg Glu Asn Thr Asn Val
732         595             600             605
734 Pro Asn Val Arg Asn Asp Asn His Asn Val Asp Lys Val His Ile Ala
735     610             615             620
737 Ile Ile Gly Asp Gly Gly Leu Thr Gly Gly Met Ala Leu Glu Ala Leu
738 625             630             635             640
740 Asn Tyr Ile Ser Phe Leu Asn Ser Lys Ile Leu Ile Ile Tyr Asn Asp
741             645             650             655
743 Asn Gly Gln Val Ser Leu Pro Thr Asn Ala Val Ser Ile Ser Gly Asn
744             660             665             670
746 Arg Pro Ile Gly Ser Ile Ser Asp His Leu His Tyr Phe Val Ser Asn
747         675             680             685
749 Ile Glu Ala Asn Ala Gly Asp Asn Lys Leu Ser Lys Asn Ala Lys Glu
750     690             695             700
752 Asn Asn Ile Phe Glu Asn Leu Asn Tyr Asp Tyr Ile Gly Val Val Asn
753 705             710             715             720
755 Gly Asn Asn Thr Glu Glu Leu Phe Lys Val Leu Asn Asn Ile Lys Glu
756             725             730             735
758 Asn Lys Leu Lys Arg Ala Thr Val Leu His Val Arg Thr Lys Lys Ser
759         740             745             750
761 Asn Asp Phe Ile Asn Ser Lys Ser Pro Ile Ser Ile Leu His Ser Ile
762     755             760             765
764 Lys Lys Asn Glu Ile Phe Pro Phe Asp Thr Thr Ile Leu Asn Gly Asn
765     770             775             780
767 Ile His Lys Glu Asn Lys Ile Glu Glu Glu Lys Asn Val Ser Ser Ser
768 785             790             795             800
770 Thr Lys Tyr Asp Val Asn Asn Lys Asn Asn Lys Asn Asn Asp Asn Ser
771             805             810             815
773 Glu Ile Ile Lys Tyr Glu Asp Met Phe Ser Lys Glu Thr Phe Thr Asp
774         820             825             830
776 Ile Tyr Thr Asn Glu Met Leu Lys Tyr Leu Lys Lys Asp Arg Asn Ile
777     835             840             845
779 Ile Phe Leu Ser Pro Ala Met Leu Gly Gly Ser Gly Leu Val Lys Ile
780     850             855             860
782 Ser Glu Arg Tyr Pro Asn Asn Val Tyr Asp Val Gly Ile Ala Glu Gln
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783 865                  870              875                  880
785 His Ser Val Thr Phe Ala Ala Ala Met Ala Met Asn Lys Lys Leu Lys
786                  885              890              895
788 Ile Gln Leu Cys Ile Tyr Ser Thr Phe Leu Gln Arg Ala Tyr Asp Gln
789              900              905              910
791 Ile Ile His Asp Leu Asn Leu Gln Asn Ile Pro Leu Lys Val Ile Ile
792          915              920              925
794 Gly Arg Ser Gly Leu Val Gly Glu Asp Gly Ala Thr His Gln Gly Ile
795      930              935              940
797 Tyr Asp Leu Ser Tyr Leu Gly Thr Leu Asn Asn Ala Tyr Ile Ile Ser
798 945              950              955              960
800 Pro Ser Asn Gln Val Asp Leu Lys Arg Ala Leu Arg Phe Ala Tyr Leu
801              965              970              975
803 Asp Lys Asp His Ser Val Tyr Ile Arg Ile Pro Arg Met Asn Ile Leu
804          980              985              990
806 Ser Asp Lys Tyr Met Lys Gly Tyr Leu Asn Ile His Met Lys Asn Glu
807          995              1000              1005
809 Ser Lys Asn Ile Asp Val Asn Val Asp Ile Asn Asp Asp Val Asp Lys
810      1010              1015              1020
812 Tyr Ser Glu Glu Tyr Met Asp Asp Asp Asn Phe Ile Lys Ser Phe Ile
813 025 /025           1030              1035              1040
815 Gly Lys Ser Arg Ile Ile Lys Met Asp Asn Glu Asn Asn Asn Thr Asn
816              1045              1050              1055
818 Glu His Tyr Ser Ser Arg Gly Asp Thr Gln Thr Lys Lys Lys Lys Val
819          1060              1065              1070
821 Cys Ile Phe Asn Met Gly Ser Met Leu Phe Asn Val Ile Asn Ala Ile
822      1075              1080              1085
824 Lys Glu Ile Glu Lys Glu Gln Tyr Ile Ser His Asn Tyr Ser Phe Ser
825      1090              1095              1100
827 Ile Val Asp Met Ile Phe Leu Asn Pro Leu Asp Lys Asn Met Ile Asp
828 105 //05           1110              1115              1120
830 His Val Ile Lys Gln Asn Lys His Gln Tyr Leu Ile Thr Tyr Glu Asp
831              1125              1130              1135
833 Asn Thr Ile Gly Gly Phe Ser Thr His Phe Asn Asn Tyr Leu Ile Glu
834          1140              1145              1150
836 Asn Asn Tyr Ile Thr Lys His Asn Leu Tyr Val His Asn Ile Tyr Leu
837          1155              1160              1165
839 Ser Asn Glu Pro Ile Glu His Ala Ser Phe Lys Asp Gln Gln Glu Val
840      1170              1175              1180
842 Val Lys Met Asp Lys Cys Ser Leu Val Asn Arg Ile Lys Asn Tyr Leu
843 185 //85           1190              1195              1200
845 Lys Asn Asn Pro Thr
846              1205
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E--> 813 (025) /025
E--> 828 (105) //05
E--> 843 (185) //85

VERIFICATION SUMMARY   DATE: 02/12/2004
PATENT APPLICATION: **US/09/673,389A**   TIME: 15:37:03

Input Set : **A:\Sq011291.app**
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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:813 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
M:332 Repeated in SeqNo=4